

10/052203

(FILE 'HOME' ENTERED AT 09:02:23 ON 05 MAR 2003)

FILE 'CA' ENTERED AT 09:02:38 ON 05 MAR 2003

 E US-5635325/PN
L1 1 S E3
 E JP-57052574/PN
L2 1 S E3
 E JP-52003304/PN
L3 2 S E3
L4 11 S TONER AND (CRYSTAL? (5A) WAX##)
 DEL SAVE
L5 25 S TONER AND (CRYSTAL? (5A) (ESTER# OR POLYESTER#))
L6 24 S L5 NOT L4

FILE 'STNGUIDE' ENTERED AT 09:11:19 ON 05 MAR 2003

FILE 'CA' ENTERED AT 09:14:31 ON 05 MAR 2003

STN

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L4 ANSWER 1 OF 11 CA COPYRIGHT 2003 ACS
AN 122:20422 CA
TI Polymer **toner** and its manufacture
IN Nagamura, Hiroshi; Kushino, Mitsuo; Mori, Yoshikuni
PA Nippon Catalytic Chem Ind, Japan
SO Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 06130723	A2	19940513	JP 1992-281617	19921020
	JP 2749234	B2	19980513		
				JP 1992-281617	19921020

L4 ANSWER 1 OF 11 CA COPYRIGHT 2003 ACS

TI Polymer **toner** and its manufacture

AB In the title **toner** comprised of a binder resin, a coloring agent, a wax and/or magnetic powder, the **wax** is polyethylene **wax** having a **crystallinity** .gtoreq.80 % and dispersed as short fibers in the **toner**. The title manuf. involves a suspension polymn. of the above polymerizable compns. in an aq.-solvent in the presence of the dispersed polyethylene wax short fibers prepd. by heat-fusing and cooling the wax. The **toner** showed good fixing, anti-offset, and anti-blocking characteristics.

ST electrophotog polymer **toner** polyethylene wax; graft wax electrophotog polymer **toner**

IT Electrophotographic developers
(toners, polymer-**toner** with good fixing, anti-offset, and anti-blocking characteristics and its manuf.)

IT 9002-88-4, Hiwax 200P

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(Hiwax 200P, Hiwax 400P; polymer-**toner** with good fixing, anti-offset, and anti-blocking characteristics and its manuf.)

IT 153191-65-2, Hiwax HW 1140H

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(Hiwax HW 1140H; polymer-**toner** with good fixing, anti-offset, and anti-blocking characteristics and its manuf.)

IT 153191-67-4, Hiwax HW 3010R

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(Hiwax HW 3010R; polymer-**toner** with good fixing, anti-offset, and anti-blocking characteristics and its manuf.)

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L6 ANSWER 12 OF 24 CA COPYRIGHT 2003 ACS
AN 132:42793 CA
TI Electrophotographic **toner** having charge controlling agent of
needle crystal
IN Takahashi, Noriaki; Takeuchi, Masako; Ando, Osamu; Mitsuhashi, Kazuo;
Koizumi, Katsuo; Kanai, Takayuki
PA Mitsubishi Chemical Industries Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 11338192	A2	19991210	JP 1998-145555	19980527
				JP 1998-145555	19980527

OS MARPAT 132:42793

AB The electrophotog. **toner** has a charge controlling agent I (A, R
= arom. ring residue), II (A1-2, R1-2 = arom. ring residue; R3 = divalent
orgs.), wherein I or II is needle crystal having .ltoreq.0.2 ratio
between the short axis length and the long axis and having .ltoreq.0.5
.mu.m short axis length. The **toner** shows the excellent
durability, environmental compatibility, and transparency.

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L6 ANSWER 15 OF 24 CA COPYRIGHT 2003 ACS

AN 121:191314 CA

TI **Toner** compositions containing **crystalline** acrylic
ester polymer

IN Kushino, Mitsuo; Mori, Yoshikuni

PA Nippon Catalytic Chem Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 06148936	A2	19940527	JP 1992-293289	19921030
	JP 3077860	B2	20000821		
				JP 1992-293289	19921030

AB The title toners contain cryst. (meth)acrylic ester-type polymer with wt. av. mol. wt. (Mw) 35,000-500,000 0.5-30 wt.% in a **toner** component contg. a binder resin and a coloring agent. The toners show good antioffset properties, flowability, storage stability, and charging properties. Thus, styrene-Bu acrylate copolymer, poly(stearyl acrylate), MA-600 (carbon black) and a charge-controlling agent were kneaded, pulverized, and mixed with Aerosil R 972 to give a **toner**.

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L3	3	voronoi and toner\$1	USPAT; US-PG PUB	2003/03/05 06:25
2	BRS	L2	14	l1 and toner\$1	USPAT; US-PG PUB	2003/03/05 06:29
3	BRS	L1	17	fere adj1 diameter	USPAT; US-PG PUB	2003/03/05 07:12
4	BRS	L4	0	fere adj1 diameter	EPO; JPO; DERW ENT	2003/03/05 07:12
5	BRS	L5	134175	(voronoi or volonoi) and toner	EPO; JPO; DERW ENT	2003/03/05 07:13
6	BRS	L6	0	(voronoi or volonoi) and toner	EPO; JPO; DERW ENT	2003/03/05 07:13

EAST